

Application Number 09/484,974  
Amendment dated January 21, 2005  
Reply to Office Action of October 21, 2004

Amendments to the Claims:

Please cancel claim 2. Please amend claims 1 and 4 as follows.

This listing of claims replaces all prior versions, and listings, of claims in the application.

Listing of claims:

1. (Currently Amended) A moving picture experts group (MPEG) decoder for producing a caption for display on a screen, said MPEG decoder producing a video stream from an externally-applied MPEG stream, the MPEG decoder comprising:
  - a video decoder for decoding the video stream and extracting user data from header information of the video stream, the user data indicating whether the video stream includes caption data;
  - a header memory for storing the user data;
  - a central processing unit (CPU) for (i) decoding the user data, (ii) determining from the user data whether the video stream includes caption data, (iii) transforming the caption data into on-screen-display (OSD) object data, and (iv) generating an OSD Enable signal if the video stream contains caption data;
  - an OSD controller for receiving the OSD Enable signal and transforming the OSD object data into pixel data in response to the enable signal and outputting the pixel data as pixel data output; wherein the OSD controller comprises:
    - an OSD buffer for storing the OSD object data received from the CPU;
    - and
    - an OSD processor comprising:
      - a buffer interface unit for receiving the OSD object data from the OSD buffer and for outputting the OSD object data;
      - a text OSD module for receiving the OSD object data from the buffer interface unit as text OSD data and for transforming the text OSD

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data and outputting text pixel data;

a bitmap OSD module for receiving the OSD object data from the buffer interface unit as bitmap OSD data and for transforming the bitmap OSD data and outputting bitmap pixel data; and

an OSD mixer for receiving the text pixel data and the bitmap pixel data and outputting a resulting mixture as the pixel data output; and

a video mixer for mixing the pixel data output with the decoded video data[[;]].

~~wherein the OSD object data is considered data transformed from caption information when a caption function is performed, and considered data for displaying non-caption OSD characters when a non-caption function is performed.~~

2. (Canceled)

3. (Canceled)

4. (Currently Amended) An MPEG decoding method comprising the steps of:

(a) decoding an MPEG video stream;

(b) extracting user data from the header of the MPEG video stream, the user data indicating whether the video stream includes caption data;

(c) decoding the user data;

(d) determining from the user data whether the video stream includes caption data;

(e) transforming the caption data into OSD object data and storing the OSD object data;

(f) generating an OSD Enable signal if the video stream includes caption data;

(g) determining whether the OSD Enable signal has been generated;

(h) generating text OSD data and bitmap OSD data from the OSD object data;

[[[h]]]](i) transforming at least one of the text OSD object data and bitmap OSD data into text pixel data and bitmap pixel data, respectively, if the OSD Enable signal has

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been generated; [[and]]

(j) mixing the text pixel data and the bitmap pixel data to produce a pixel data output; and

[[(i)]][k] mixing the pixel data output with video data and outputting the resultant data.